

# Mouse Monoclonal Antibody to AKT2

## Order Information

Catalog#	30002	
Size/Concentration	100µl	50µl
Price(¥)	2180	1280

## Description

Akt2 (also designated protein kinase B beta or v-akt murine thymoma viral oncogene homolog 2), with 481-amino acid protein (about 53kDa), belongs to the AKT serine/threonine protein kinase family, which also includes Akt1 and Akt3. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. Among the members of AKT family, Akt2 is associated with the development of human cancers. Akt2 inhibits cisplatin-induced JNK/p38 and Bax activation through phosphorylation of ASK1 and thus, plays an important role in chemoresistance. Further, Akt2 plays a specific role in muscle differentiation.

## Specification

Aliases : PKBB; PRKBB; PKBBETA; RAC-BETA

Entrez GeneID : 208

Swissprot : P31751

clone : 1B6

WB Predicted band size : 60kDa

Host/Isotype : Mouse IgG2b

Storage : Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Species Reactivity : Human,Rat,Monkey

Immunogen : Purified recombinant fragment of human AKT2 expressed in E. Coli.

Formulation : Ascitic fluid containing 0.03% sodium azide.

## Application

WB	1/500 - 1/2000
IHC	1/200 - 1/1000
ICC	1/200 - 1/1000
ELISA	1/10000

## References

1. Am J Physiol Endocrinol Metab. 2004 Jul;287(1):E8-E15.
2. Oncol Rep. 2004 Jan;11(1):25-32.
3. Cancer Res. 2003 Jan 1;63(1):196-206.

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## Protocol

WB - [www.promab.com/protocol/wb.html](http://www.promab.com/protocol/wb.html)

IHC - [www.promab.com/protocol/ihc.html](http://www.promab.com/protocol/ihc.html)

ICC - [www.promab.com/protocol/icc.html](http://www.promab.com/protocol/icc.html)

HCM - [www.promab.com/protocol/hcm.html](http://www.promab.com/protocol/hcm.html)

**Antigen Sequence** is available upon request.

## Products and Services

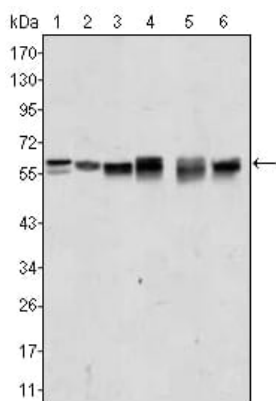
- Mouse Monoclonal Antibody
- Rat Monoclonal Antibody
- Human Antibody
- Hybridoma Sequencing
- Polyclonal Antibody

**For Research Only**

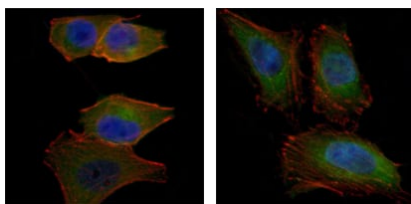
**Application Key:**WB - Western Blot | IHC - Immunohistochemistry | ICC - Immunocytochemistry | FCM - Flow Cytometry | ELISA - Enzyme-linked Immunosorbent Assay | IP - Immunoprecipitation

# #30002

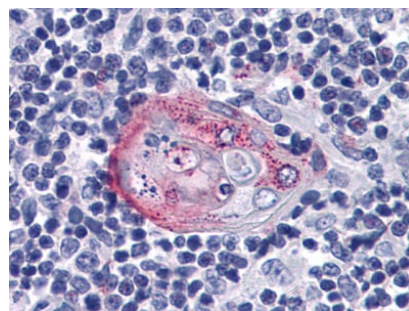
# Mouse Monoclonal Antibody to AKT2



Western blot analysis using AKT2 mouse mAb against A431 (1), Jurkat (2), HEK293 (3), A549 (4), MCF-7 (5) and PC-12 (6) cell lysate.



Immunofluorescence analysis of PANC-1 (left) and HeLa (right) cells using AKT2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Immunohistochemical analysis of paraffin-embedded human Thymus tissues using anti-AKT2 mAb

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